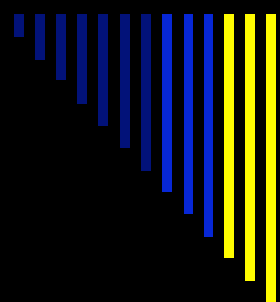



The Copenhagen summit: the French perspective

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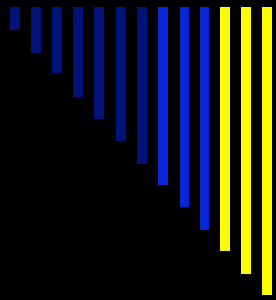


Center for German and European Studies; Forum on Environmental Crisis
Brandeis University
2 December 2009.



Outline

- Why Copenhagen? Latest data on emissions by developed and developing; Kyoto's "crisis of credibility"; latest proposals on the table;
 - The French position on mitigation: "Climate-energy package" deal at EU level (December 2008) + carbon tax in 2010;
 - The French position on adaptation: the "Climate Justice" Plan.
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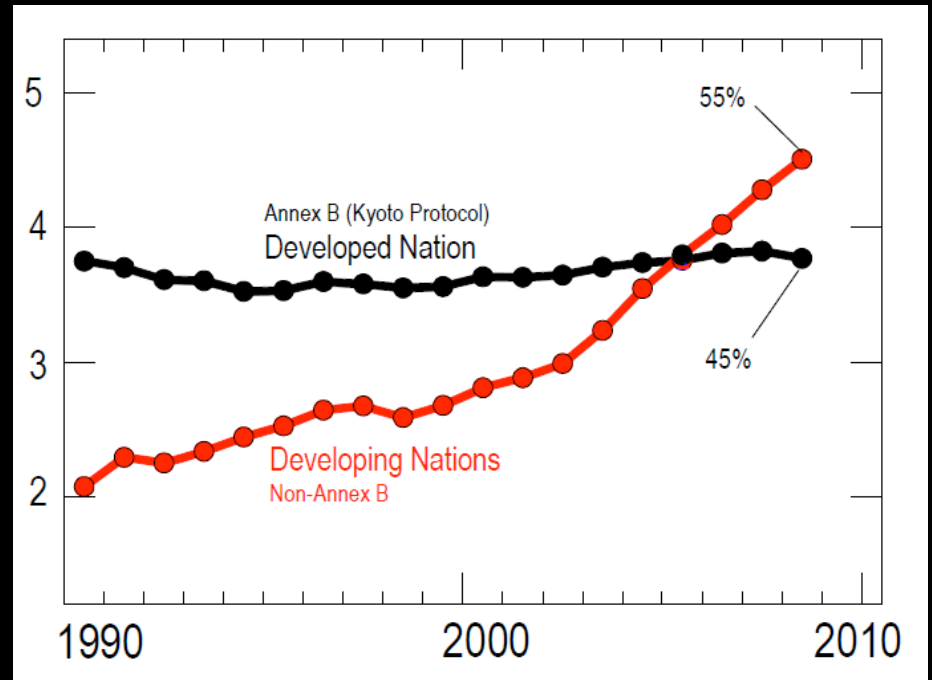
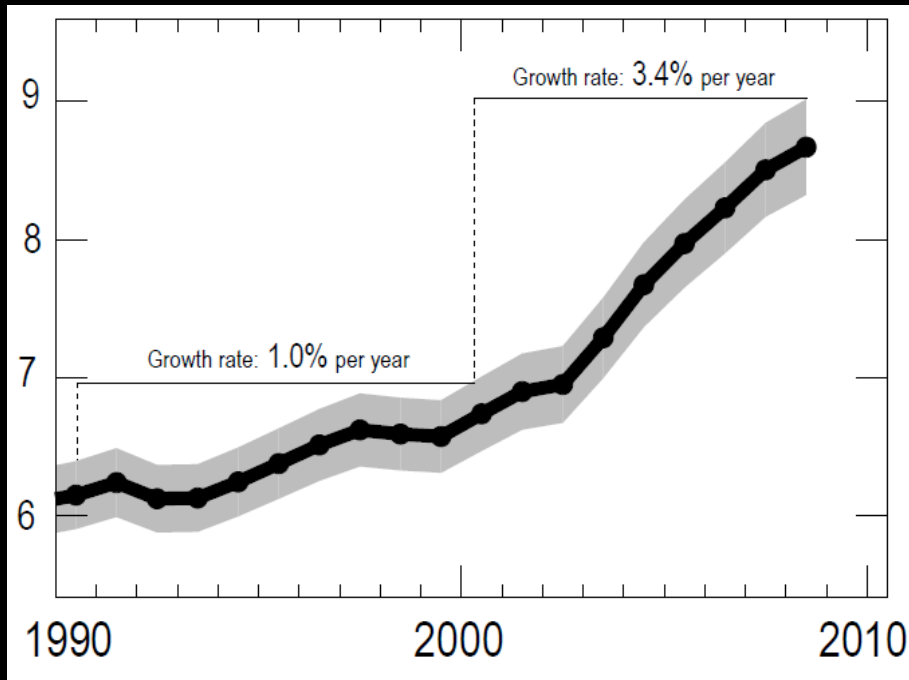


Why Copenhagen?

- Emissions of developed countries and developing countries have crossed paths in 2006: developing now 55% of global emissions;
- But “developing” misleading : in 2007, China became the world’s biggest GHG emitter. Now accounts for 23% of global emissions (US = 19%, EU 15 = 18%);
- Kyoto: “common but differentiated responsibilities” = only developed countries (and ex-USSR) have binding targets; Need to include “developing” (= emerging = mostly China); How?
- Copenhagen: cooperation between developed and emerging possible, but relies on trustworthiness and credibility: insufficient efforts so far of developed countries on mitigation (and adaptation);

Where we are: the global chiasm

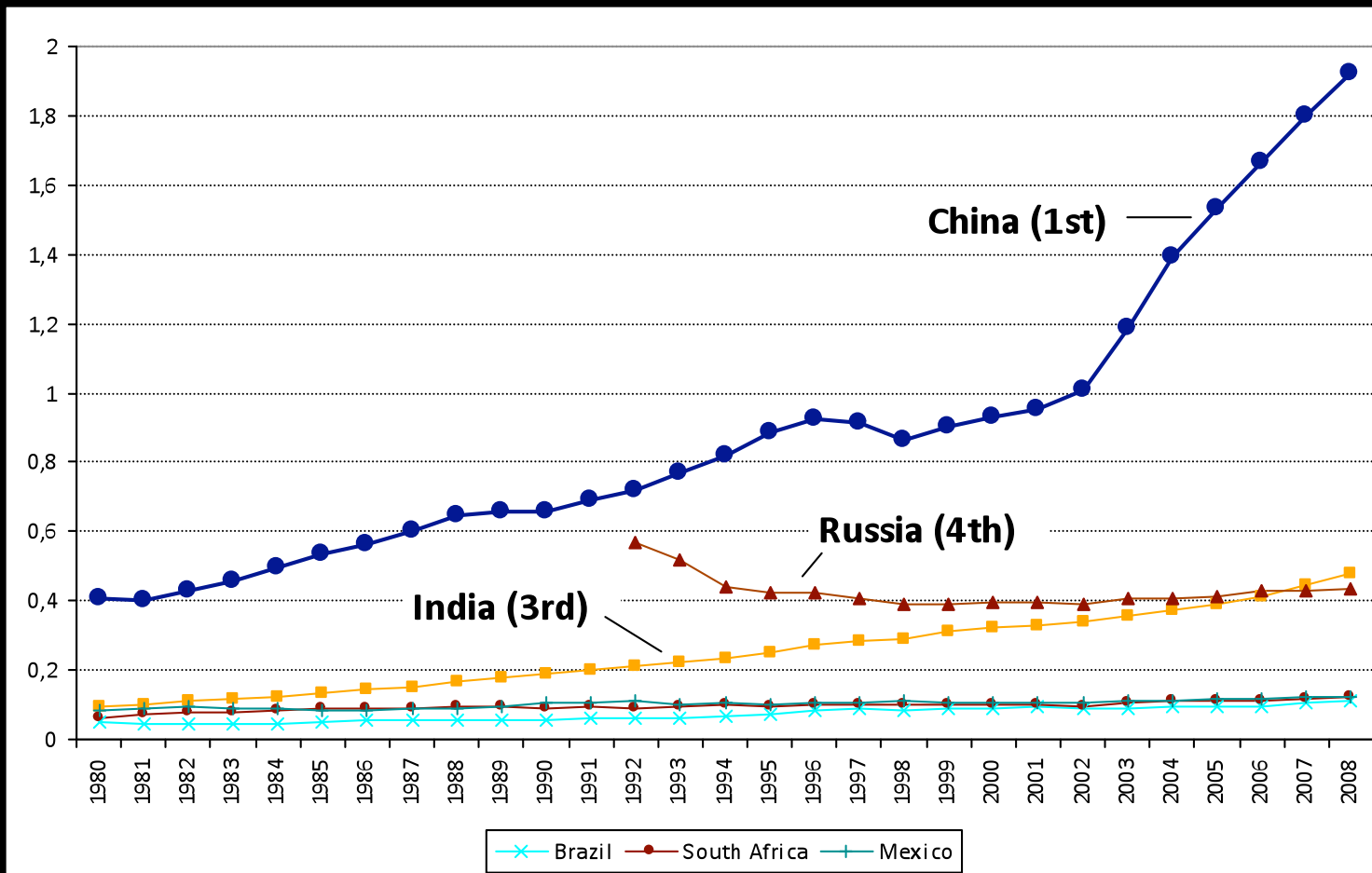
Co2 emissions from fossil fuels between 1990 and 2008: + 41%



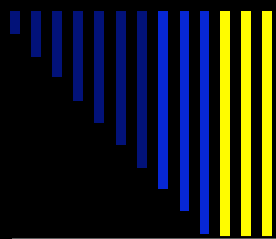
Source: Le Quéré C, Raupach MR, Canadell JG, Marland G et al. (2009)
Trends in the sources and sinks of carbon dioxide. Nature geosciences.

A breakdown between BRICs and N11

Co2 emissions from fossil fuels between 1990 and 2008

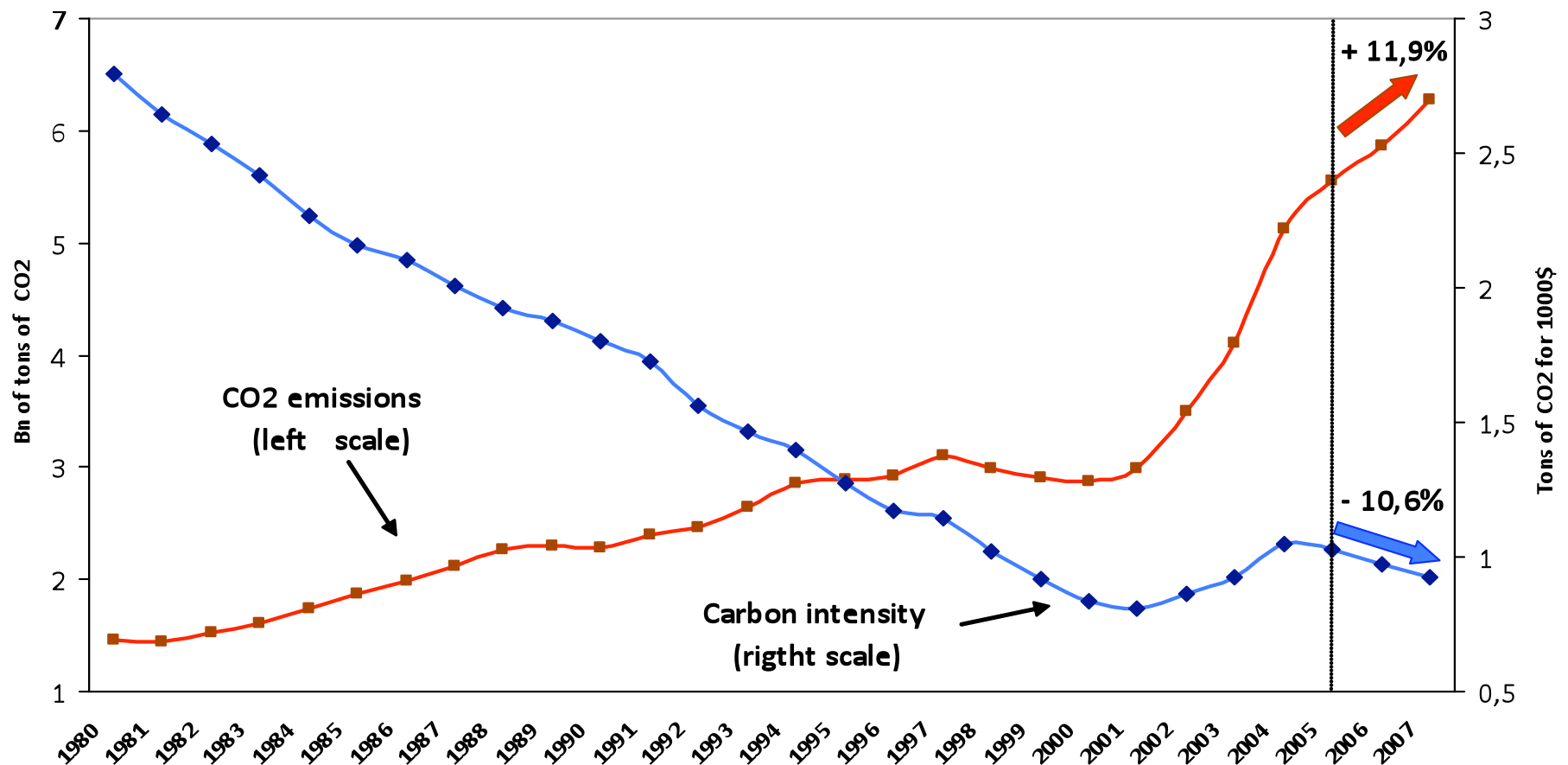


Data Source: Global Carbon Project.



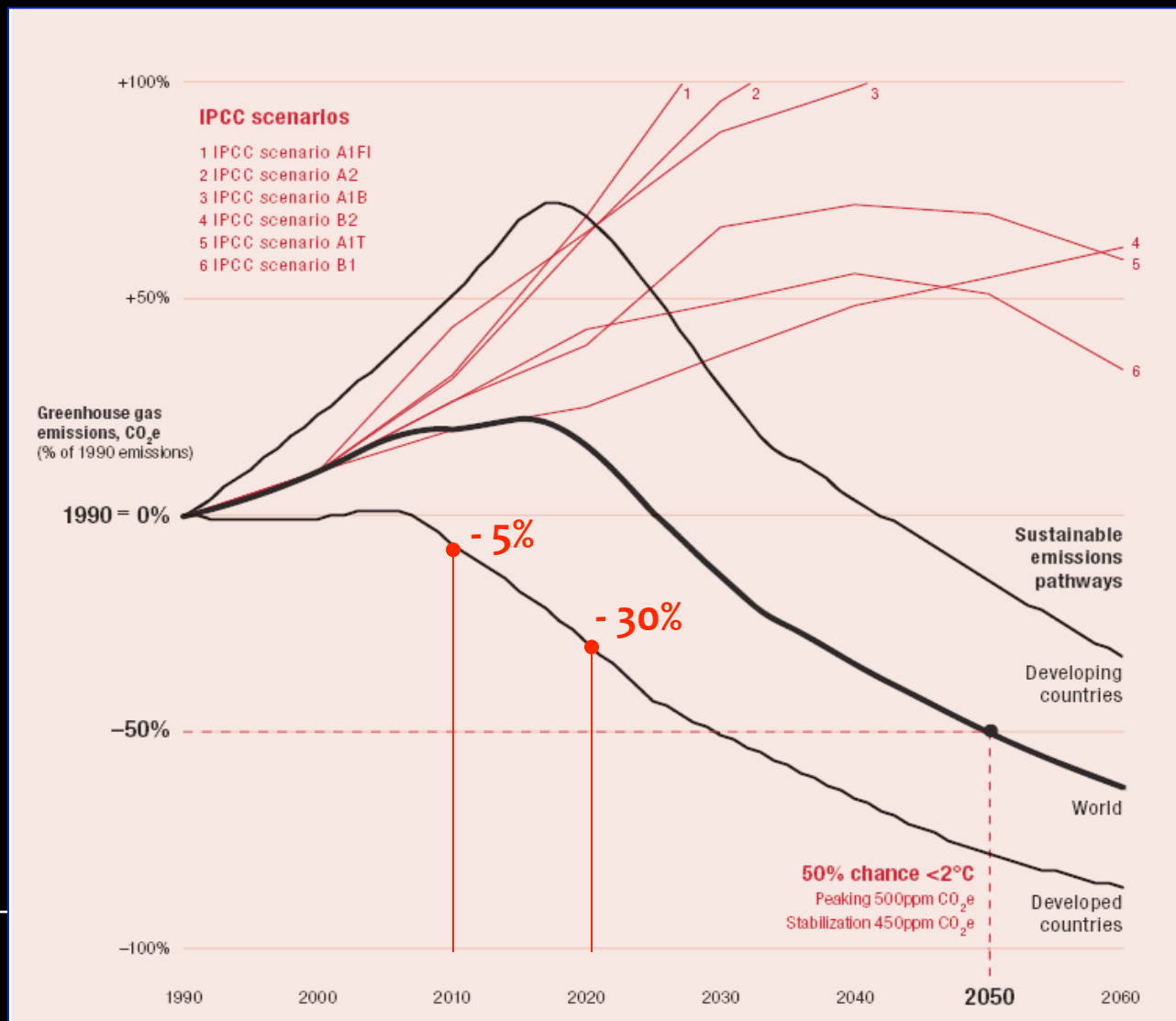
The Chinese proposition on CE

Co2 emissions from fossil fuels between 1990 and 2007



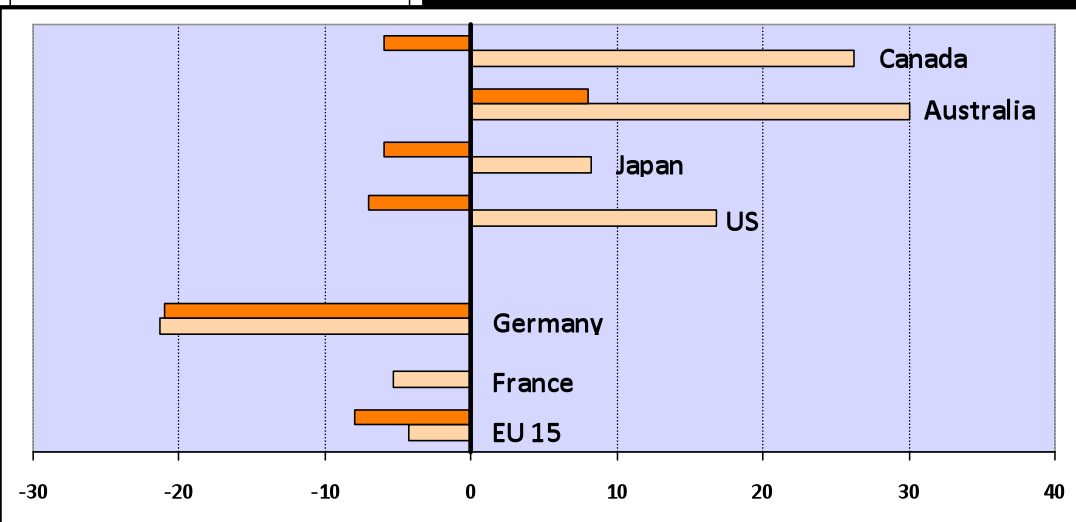
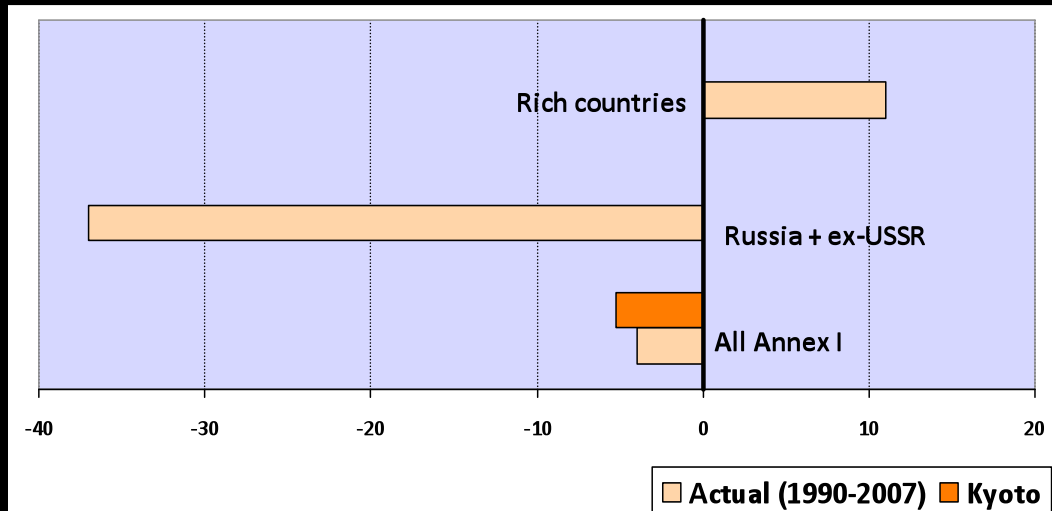
Data Source: EIA; graph and calculations: Éloi Laurent.

What we can do about it: the **twin** curves

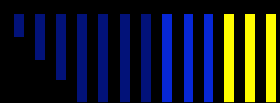


Source: HDR o8.

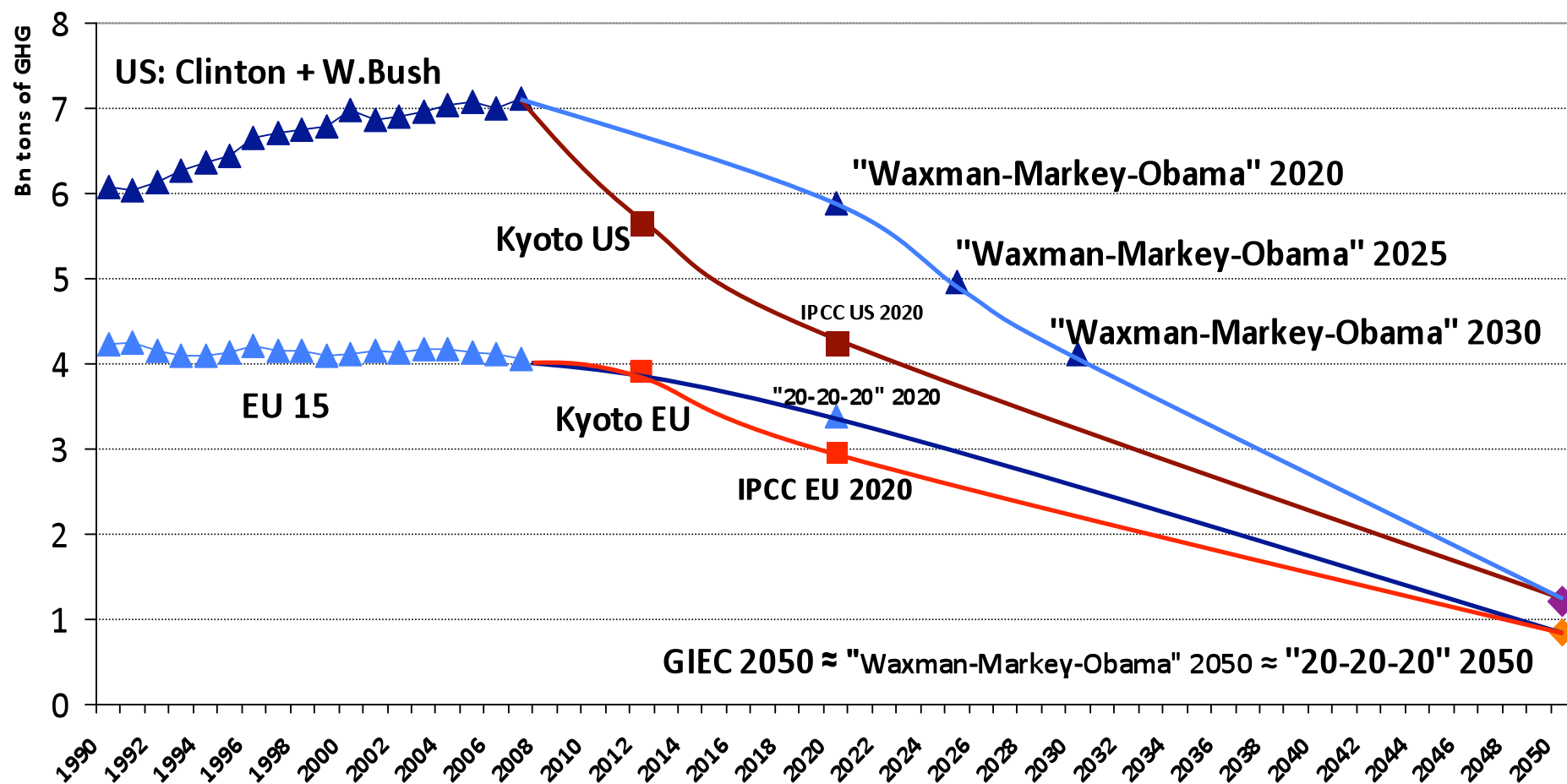
The Kyoto “crisis of credibility”



Data source: United Nations.

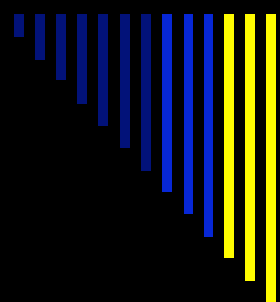


How do the EU and the US compare?



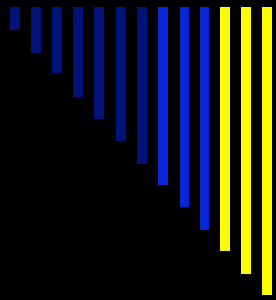
The EU emits 40% less GHG than the US with a GDP 10% higher and a population 20% higher; gap between US and EU GHG dynamic between 1990 and 2007 = **over 21 percentage points**.

Data source: United Nations; graph and calculations: Éloi Laurent.



Mitigation and adaptation

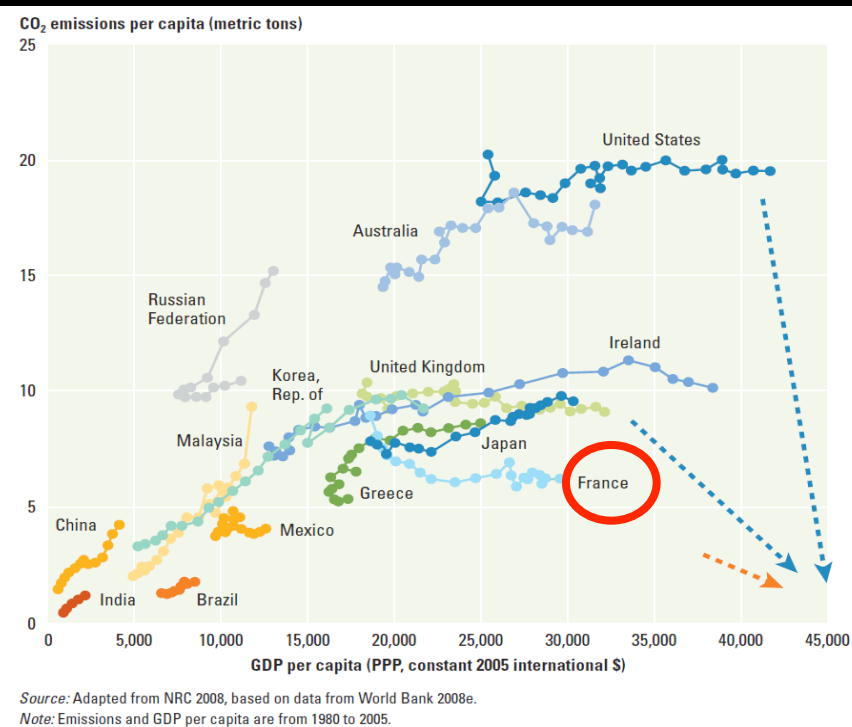
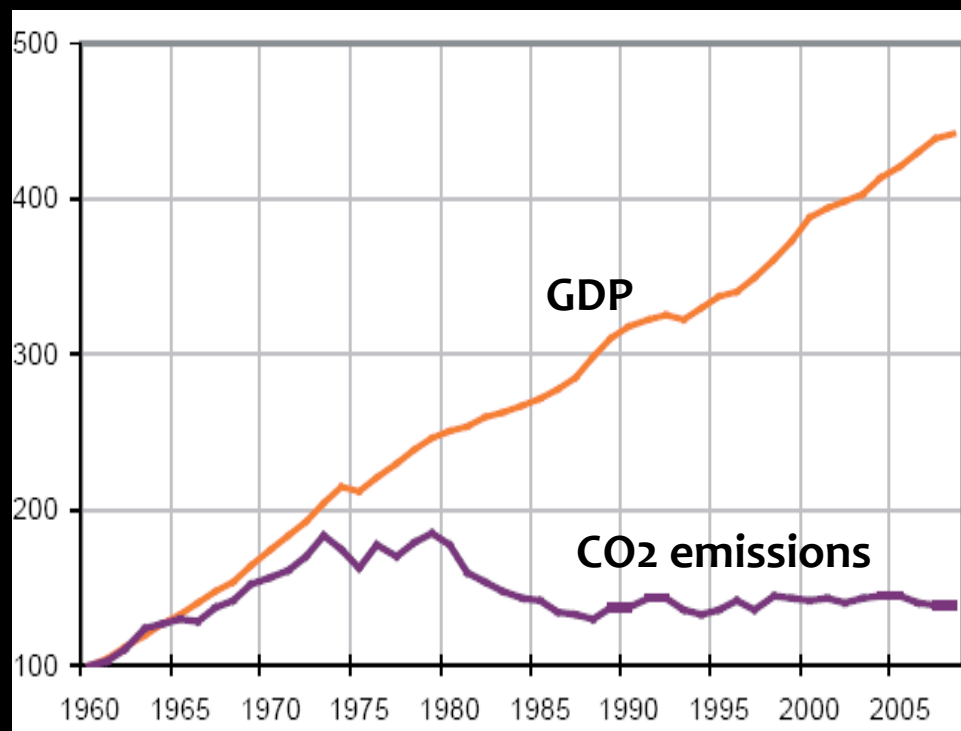
- Two types of climate policies: adaptation and mitigation.
- Mitigation: An **anthropogenic** intervention to reduce the sources or enhance the sinks of greenhouse gases (IPCC, 2001);
- Adaptation: Adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities (IPCC, 2001);



Mitigation: what can France do?

- ❑ EU climate-energy package (“20-20-20” strategy): franco-german effort (two Presidencies = 1st semester 2007 + 2nd semester 2008);
 - ❑ EU ETS at the center of the strategy: European carbon market (cap-and-trade) created in Jan 2005. 64% of world carbon markets. Volume increased 66% between 2007 and 2008. But price signal too low, unstable + “carbon leakage” and offsets; Auctioning today: 3% of permits. Powerful instrument that needs **fixing**;
 - ❑ Covers only 40% of EU emissions (energy and energy intensive sectors). Will eventually cover 50% (aviation + methane). Need for other economic instruments to deal with diffuse GHG emissions (transports: + 25% increase since 1990);
 - ❑ National Carbon taxes (European carbon tax, Swedish Presidency of the EU).
 - ❑ France’s GHG profile: looks very good from afar, but problem of **diffuse** emissions (“nuclear complacency”).
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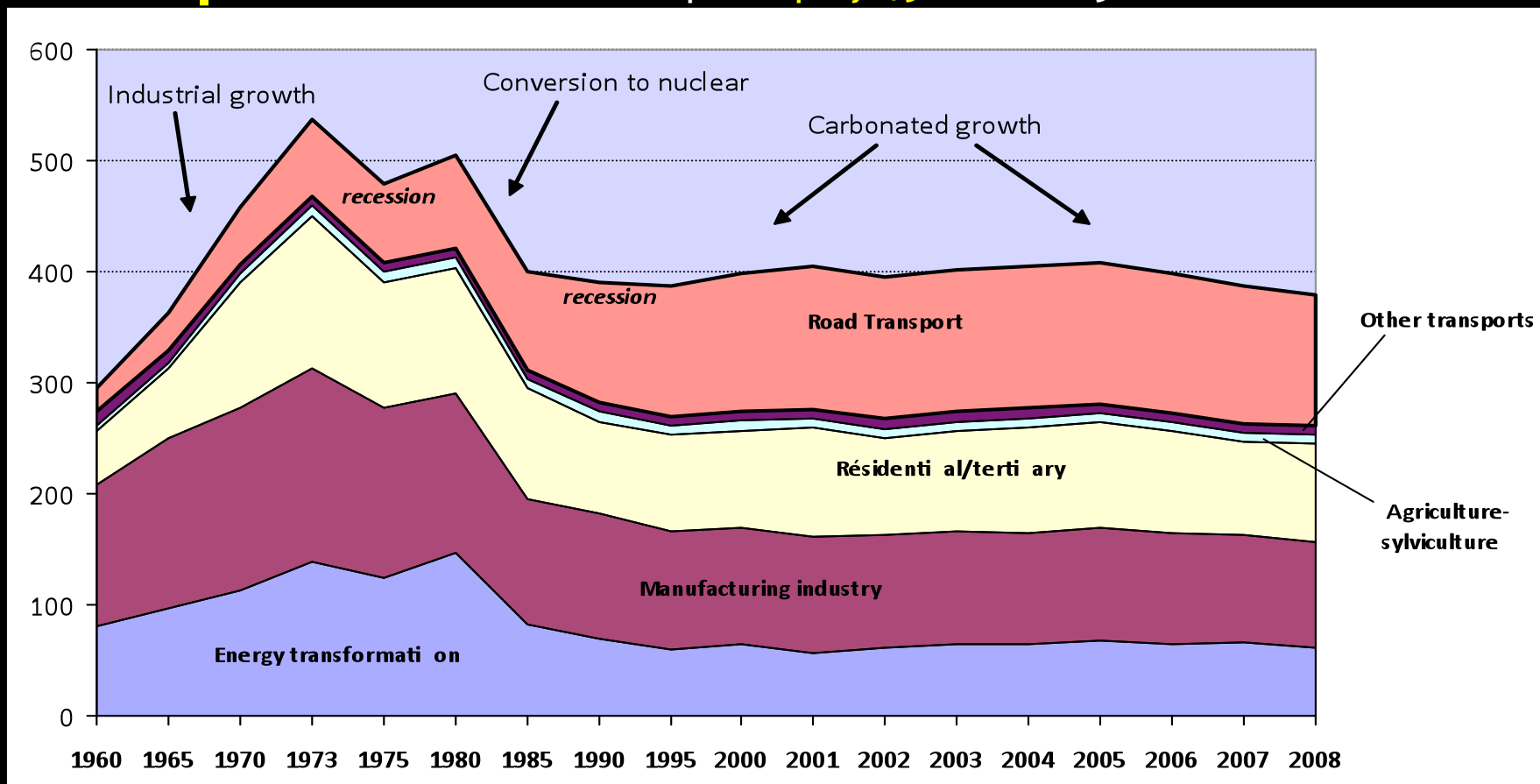
France GHG profile: looking good...



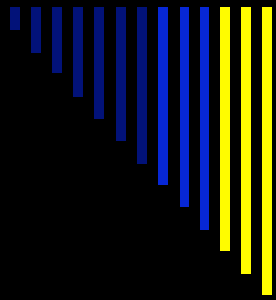
Source: WDR 2010 and French Minister of Industry.

...and not so good

2/3 of emissions not covered by EU ETS,
road transport **up by 490%** since 1960

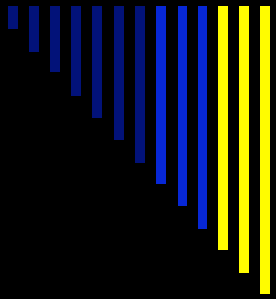


Source: Laurent & Le Cacheux, 2009.



The French carbon tax (2009-2010)

- Carbon tax voted last month in 2010 budget; will be introduced early 2010: France will then become biggest economy to have a carbon tax;
- Ecological efficiency is problematic because initial level too low : 17 euros (Commission of experts recommended 32 euros, “ideal price”, ie, scientific and not political = 45 euros).
- Why so low? Because **EU ETS used as reference**. Level for 2030 = 100 euros, but we don't know how we'll get from here to there.
- Overall impact weak. Tax = 4,6 bn euros = 0,23% of GDP, 0,47% of total tax revenues;



Adaptation: what can France do?

- Adaptation financing: **100bn per year** to be found from developed world to developing world (developed countries responsible for 75% of the problem while developing countries will bear 80% of the impact);
 - Idea of the “Mexican fund”. But where to find the money = connection to mitigation because revenues of taxes and cap and trade can be used to finance adaptation;
 - French “Climate Justice” plan, right focus on Africa (3% of global emissions, huge impact) with 250bn \$ + tax on financial transactions;
 - But lack of coordination within EU (“franco-brazilian plan”) + squabble among EU member states about distribution of financial burden = adaptation financing still uncertain...
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